

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
Total params: 65,793		
Trainable params: 65,793		
Non-trainable params: 0		

2019-06-04 13:01:31.260803: I tensorflow/core/platform/cpu\_feature\_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2

Train on 40000 samples, validate on 10000 samples

Epoch 1/20  
40000/40000 [=====] - 87s 2ms/step - loss: 0.3864 - acc: 0.8303 - val\_loss: 0.3410 - val\_acc: 0.8521  
Epoch 2/20  
40000/40000 [=====] - 84s 2ms/step - loss: 0.3408 - acc: 0.8511 - val\_loss: 0.3342 - val\_acc: 0.8540  
Epoch 3/20  
40000/40000 [=====] - 83s 2ms/step - loss: 0.3321 - acc: 0.8535 - val\_loss: 0.3248 - val\_acc: 0.8576  
Epoch 4/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3262 - acc: 0.8571 - val\_loss: 0.3201 - val\_acc: 0.8601  
Epoch 5/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3202 - acc: 0.8610 - val\_loss: 0.3178 - val\_acc: 0.8628  
Epoch 6/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3170 - acc: 0.8621 - val\_loss: 0.3176 - val\_acc: 0.8615  
Epoch 7/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3127 - acc: 0.8643 - val\_loss: 0.3120 - val\_acc: 0.8649  
Epoch 8/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3100 - acc: 0.8667 - val\_loss: 0.3123 - val\_acc: 0.8637  
Epoch 9/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3077 - acc: 0.8686 - val\_loss: 0.3116 - val\_acc: 0.8662  
Epoch 10/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3044 - acc: 0.8686 - val\_loss: 0.3138 - val\_acc: 0.8615  
Epoch 11/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.3023 - acc: 0.8707 - val\_loss: 0.3080 - val\_acc: 0.8679  
Epoch 12/20  
40000/40000 [=====] - 81s 2ms/step - loss: 0.2996 - acc: 0.8722 - val\_loss: 0.3072 - val\_acc: 0.8692  
Epoch 13/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2967 - acc: 0.8736 - val\_loss: 0.3084 - val\_acc: 0.8682  
Epoch 14/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2954 - acc: 0.8743 - val\_loss: 0.3069 - val\_acc: 0.8685  
Epoch 15/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2941 - acc: 0.8747 - val\_loss: 0.3052 - val\_acc: 0.8696  
Epoch 16/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2909 - acc: 0.8780 - val\_loss: 0.3095 - val\_acc: 0.8675  
Epoch 17/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2897 - acc: 0.8774 - val\_loss: 0.3042 - val\_acc: 0.8709  
Epoch 18/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2888 - acc: 0.8781 - val\_loss: 0.3049 - val\_acc: 0.8695  
Epoch 19/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2856 - acc: 0.8804 - val\_loss: 0.3052 - val\_acc: 0.8698  
Epoch 20/20  
40000/40000 [=====] - 82s 2ms/step - loss: 0.2839 - acc: 0.8817 - val\_loss: 0.3021 - val\_acc: 0.8711

